

19980416.qrp v01_n062.qrs.980416

Date: Thu, 16 Apr 1998 19:03:06 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1062

QRP-L Digest 1062

Topics covered in this issue include:

- 1) [8305] Re: Elmer101: soldering safety
by lynn simons <lsimons1@ix.netcom.com>
- 2) [8306] Re: Novice QRP Advice Wanted
by "John J. McDonough" <jjmcd@mdn.net>
- 3) [8307] 38 Special
by "Ron Polityka" <wb3aal@talon.net>
- 4) [8308] Re: WTB 7040 Khz XTAL
by Frank Kienast <fgk@iquest.net>
- 5) [8309] Fists
by ac5ez@webtv.net (Larry B)
- 6) [8310] Fists
by ac5ez@webtv.net (Larry B)
- 7) [8311] Ride to Days Inn ???
by "ukii" <ukii@megsinet.net>
- 8) [8312] Looking for a 38special
by jalbertin@juno.com (Jerry Albertin)
- 9) [8313] Re: Novice QRP Advice Wanted
by Frank Kienast <fgk@iquest.net>
- 10) [8314] Fwd: Ham Com
by AlexQRP <AlexQRP@aol.com>
- 11) [8315] Ten-Tec 1320 QRP kit for trade
by Karl Heimbach <heimbach@concentric.net>
- 12) [8316] Thanks for the help getting the QRP-L Number
by "Ken Burrough" <ne0c@1st.net>
- 13) [8317] Parts For Sale
by n5inz@juno.com (John M Andrews)
- 14) [8318] Novice QRP - Schedule!
by Frank Kienast <fgk@iquest.net>
- 15) [8319] QRP Trade QRP Trade
by "Kelly Ellison" <kelman@dialnet.net>
- 16) [8320] elmer 101: IC sockets
by Roger Braker <msebrakr@telepath.com>
- 17) [8321] Elmer101: power supply rejection ratio calculation
by Michael Maiorana <mikemo@ibm.net>
- 18) [8322] Re: Please! (was soldering safety)
by "Steve Sorrell" <ap036@detroit.freenet.org>
- 19) [8323] LED keyer - update

- by Steven Weber <kd1jv@moose.ncia.net>
- 20) [8324] Re: Elmer101: soldering safety
by Joe Everhart <n2cx@voicenet.com>
 - 21) [8325] Re: Elmer101: power supply rejection ratio calculation
by "George T. Baker" <w5yr@swbell.net>
 - 22) [8326] Re: Elmer101: power supply rejection ratio calculation
by Michael Maiorana <mikemo@ibm.net>
 - 23) [8327] Re: Low-cost resistor storage
by "Steve Hurst" <shurst@magiclink.com>
 - 24) [8328] Re: Elmer101: power supply rejection ratio calculation
by "George T. Baker" <w5yr@swbell.net>
 - 25) [8329] [Fwd: Elmer101: power supply rejection ratio calculation]
by "George T. Baker" <w5yr@swbell.net>
 - 26) [8330] QRP TTF Rules on R. Havana Cuba
by Paul Harden <pharden@aoc.nrao.edu>
 - 27) [8331] New Stuff and Price Reduction
by "Marshall Emm" <mgemm@mtechnologies.com>
 - 28) [8332] Two odd stories
by "Marshall Emm" <mgemm@mtechnologies.com>
 - 29) [8333] Elecraft K2 Presentation & Demo!!!
by Dave Fifield <fifield@pacbell.net>
 - 30) [8334] Fairly cheap parts storage. Manila , Space saver.
by pmk@juno.com (Patrick M Kvitkauskas)
 - 31) [8335] WTB ST LOUIS VERT
by THE ONE AND ONLY <mitch96@pobox.com>
 - 32) [8336] Naval Transmitting Facility Tour info
by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
 - 33) [8337] Naval Transmitting Facility Tour, Annapolis, MD
by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
 - 34) [8338] Deep cycle battery
by Dave Marling <dbm@klis.com>
 - 35) [8339] Re: Low-cost resistor storage
by Jim Osburn <wd9eyb@butler.indiana.net>
 - 36) [8340] RE: QRPTTF Op Hit List - Growing Fast!
by n4js@pobox.com
 - 37) [8341] NF3I ARCI Spring Contest Report
by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
 - 38) [8342] Re: elmer 101: IC sockets
by Jeff Grudin <grudin@pacific.vdbs.com>
 - 39) [8343] New Call
by DENNIS MO <DENNISMO@aol.com>
 - 40) [8344] Re: Fairly cheap parts storage. Manila , Space saver.
by Chris Trask <ctrask@primenet.com>
 - 41) [8345] tax refund [g]...
by Ward Hill <w_hill@ns.net>
 - 42) [8346] KF6NJQ => AD6EZ
by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
 - 43) [8347] Re: QRPTTF Rules on Radio Habana

by af852@rgfn.epcc.edu (William R Colbert)

44) [8348] Elmer101: Dave's Diode Diatribe
by gsurrency@juno.com (Gary L Surrency)

45) [8349] Re: Deep cycle battery
by LYN <designserv@ipass.net>

46) [8350] Elmer101
by Brad Mugleston <bmug@gwl.com>

47) [8351] Re: tax refund [g]...
by Mike Manship <mjmanship@iquest.net>

48) [8352] new call
by ac5ez@webtv.net (Larry B)

49) [8353] Re: tax refund [g]...
by Monte Stark <ku7y@dri.edu>

50) [8354] Remember That "vertical yagi" with ropes and wire & trees?
by jdenison@morelr.com (JOEL DENISON)

51) [8355] Re: Another SST on 20 meters
by "L.Svec,W.Burdick" <svecbrdk@well.com>

52) [8356] Radials for Verticals
by "James R. Duffey" <ji3m@maxwell.com>

53) [8357] Re: tax refund [g]...
by "Marshall Emm" <mgemm@mtechnologies.com>

54) [8358] Re: Parts offer-N5INZ
by n5inz@juno.com (John M Andrews)

55) [8359] Elmer 101 diodes
by PDouglas12 <PDouglas12@aol.com>

56) [8360] ARCI QSI Party, we6w
by Ed Loranger <we6w@qsl.net>

57) [8361] Re: ARCI QSI Party, we6w
by Ed Loranger <we6w@qsl.net>

58) [8362] Re: tax refund [g]...
by "J. Skalski" <jskalski@acsu.buffalo.edu>

59) [8363] Elmer 101: questions on part 2
by Michael Maiorana <mikemo@ibm.net>

60) [8364] Re: Elmer 101 diodes
by Michael Maiorana <mikemo@ibm.net>

61) [8365] Attn: Don, K9BNI
by K5BDZ <K5BDZ@aol.com>

62) [8366] Re: Radials for Verticals
by Vic Rosenthal <rakefet@rakefet.com>

63) [8367] Re: Elmer101: power supply rejection ratio calculation
by "George T. Baker" <w5yr@swbell.net>

64) [8368] Reply for 38S
by "Ron Polityka" <wb3aal@talon.net>

65) [8369] Re: Elmer 101: Part 2, power supply
by Richard Sherman <srichard@aldus.northnet.org>

66) [8370] ATU Coil Contruction
by "Grindrod, Ross [Pulp & Paper]" <GRINDRR@chh.co.nz>

67) [8371] S&S new radio, OHR new radio, K2 new radio & that other new radio

by nilsbull@juno.com (Nils R Young)
68) [8372] Free books
by ac5ez@webtv.net (Larry B)
69) [8373] Re: Elmer 101: questions on part 2
by "Alan Kaul" <alan.kaul@worldnet.att.net>

Date: Wed, 15 Apr 1998 18:23:12 -0500
From: lynn simons <lsimons1@ix.netcom.com>
To: rmccarty@earthlink.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [8305] Re: Elmer101: soldering safety
Message-ID: <3535415F.1DCF0561@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Roger A. McCarty wrote:

> >spent 10 years working in electronic construction, soldering on a daily
> >basis. What are the symptoms of lead poisoning?
> >
> >Richard Phillips
>
> Extreme inquisitiveness, above average intelligence, keen sense of logic,
> and superior constructional skills.
>
> Roger KD6CC

Oh, my God, I think I may have lead poisoning!!!

Lynn, KJ3V
Birmingham, AL

Date: Wed, 15 Apr 1998 19:52:00 -0400
From: "John J. McDonough" <jjmcd@mdn.net>
To: <BuckPD@corning.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [8306] Re: Novice QRP Advice Wanted
Message-ID: <199804160052.4344600@midland2.mdn.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

> From: Buck, Preston D <BuckPD@corning.com>; owner-qrp-1@Lehigh.EDU

> Any takers?

I'm game!

73 de WB8RCR

Date: Wed, 15 Apr 1998 19:55:23 -0400
From: "Ron Polityka" <wb3aal@talon.net>
To: "QRP-L" <qrp-1@Lehigh.EDU>
Subject: [8307] 38 Special
Message-ID: <01bd68c9\$f4adfb0\$6a5445c6@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I would like to thank all the people that offered me a 38S.
I have more than I need at the present time. I will get back
to all that have e-mailed me so far.

Anyone need a 38S???

Thanks,
73, Good DXing & QRPing
Ron de WB3AAL

E-mail: wb3aal@talon.net
BBS: WB3AAL @ WB3FYL.#BER.PA.USA.NA

EPA QRP # 1 QRP # 5318 10-10 # 13173
QRP-L # 1099 G-QRP # 3031 AK QRP # 309
Adventure Radio Society #380

Date: Wed, 15 Apr 1998 19:10:55 -0500
From: Frank Kienast <fgk@iquest.net>
To: scott.freeberg@guidant.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [8308] Re: WTB 7040 Khz XTAL
Message-ID: <35354C8F.5E4F@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Look at the Norcal Kits Page
<http://www.fix.net/~jparkernorcal/kits/kits.htm>
They have one for \$3.

Frank Kienast
KB9QEI

Freeberg, Scott (STP) wrote:
>
> Want to buy a 7040 Khz crystal
>
> Thanks,
>
> Scott WA9WFA Saint Paul Minn

Date: Wed, 15 Apr 1998 19:12:29 -0500
From: ac5ez@webtv.net (Larry B)
To: qrp-1@Lehigh.EDU
Subject: [8309] Fists
Message-ID: <199804160012.RAA05153@mailtod-122.bryant.webtv.net>
Content-Type: TEXT/PLAIN; CHARSET=US-ASCII
Content-Transfer-Encoding: 7BIT
MIME-Version: 1.0 (WebTV)

Just received my Fists #4733 in the mail today, very nice certificate.
Larry ac5ez
Fists # 4733

Date: Wed, 15 Apr 1998 19:39:03 -0500
From: ac5ez@webtv.net (Larry B)
To: qrp-1@Lehigh.EDU

Subject: [8310] Fists
Message-ID: <199804160039.RAA11878@mailtod-122.bryant.webtv.net>
Content-Type: TEXT/PLAIN; CHARSET=US-ASCII
Content-Transfer-Encoding: 7BIT
MIME-Version: 1.0 (WebTV)

Tom
Thanks , cw and qrp kind of go together dont they.
Larry ac5ez
Fists # 4733

Date: Wed, 15 Apr 1998 19:55:52 -0500
From: "ukii" <ukii@megsinet.net>
To: "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [8311] Ride to Days Inn ???
Message-ID: <005d01bd68d2\$69809fe0\$f24e85d0@ns1.megsinet.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello Gang...
I am able to go to Dayton this year for the first time and
the hotel we are staying at it the Days Inn in Brookeville?
Anyway,wonder if any of you are staying there as well.
I am trying to find a ride from the hotel to the QRP Vendor deal on
Saturday night. From the looks on a map,seems its too far to walk.
(although its only 2 inches!)

Anywho,please,if anyone is staying at the Days Inn in Brookeville
please let me know.

Boy,I am getting excited! Maybe I should bring my virgin 49er
and have a Q with someone and pass out the Jolt Cola!

Looking forward to meeting MOST of you! (still scared about NilsBul)
Thanks Much
72 de john
n9ukx

Date: Wed, 15 Apr 1998 21:06:21 EDT
From: jalbertin@juno.com (Jerry Albertin)
To: qrp-1@Lehigh.EDU
Subject: [8312] Looking for a 38special
Message-ID: <19980415.201715.5311.0.JAlbertin@juno.com>

Hello all, I've been following the list for a while and apparently there are 38 specials still around. If anybody has an unbuilt kit or a working 38 rig with or without mods that they would like to get rid of please let me know.....Jerry kg2jf

jalberti@juno.com

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 15 Apr 1998 20:10:19 -0500
From: Frank Kienast <fgk@iquest.net>
To: BuckPD@corning.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [8313] Re: Novice QRP Advice Wanted
Message-ID: <35355A7B.3C52@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I am setting up schedules now. I'll add 01Z Friday night to my list of operating times. Will post here shortly.

Thanks,
Frank Kienast
KB9QEI

Buck, Preston D wrote:

> But since November is a long way away (foxhunt withdrawl is a terrible

> thing) I have an idea. Let's schedule a mini-Foxhunt for Friday night at
> 2100 EDT (0100 UTC). 2100 EDT should be just about dusk for you so you can
> take advantage of greyline propagation. I will be listening for you on the
> frequency of your choice so announce it to the list so we can get some of
> the really good hunters involved. I would suggest a 2 hour time block and
> it could be moved to fit your schedule.
>
> Any takers?
>
> 73
> Preston, n0g1m, Southern NY State
>
> My words, not my employer's
>
> Frank Kienast wrote:
> <snip>
> Any advice on why I am not making contacts and what I might be able to
> do to remedy this problem would be appreciated.

Date: Wed, 15 Apr 1998 21:13:56 EDT
From: AlexQRP <AlexQRP@aol.com>
To: qrp-1@Lehigh.EDU
Subject: [8314] Fwd: Ham Com
Message-ID: <b0635e32.35355b55@aol.com>
Mime-Version: 1.0
Content-type: multipart/mixed;
boundary="part0_892689236_boundary"

This is a multi-part message in MIME format.

--part0_892689236_boundary
Content-ID: <0_892689236@inet_out.mail.aol.com.1>
Content-type: text/plain; charset=US-ASCII

--part0_892689236_boundary
Content-ID: <0_892689236@inet_out.mail.aol.com.2>
Content-type: message/rfc822
Content-transfer-encoding: 7bit
Content-disposition: inline

From: AlexQRP <AlexQRP@aol.com>
Return-path: <AlexQRP@aol.com>
To: ku7y@dri.edu
Subject: Re: Ham Com

Date: Wed, 15 Apr 1998 21:06:12 EDT
Organization: AOL (http://www.aol.com)
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

23 hrs and 50 minutes,,lets see, when I got married to my current xyl 34
years ago those hours and minutes where spent uh uh uh uh uh
,,well the first thing to go is the memory !!!

Alex W5ALX ARCI 6263 QRP-L 334 and uh uh uh Oh well..

--part0_892689236_boundary--

Date: Wed, 15 Apr 1998 20:18:50 -0500
From: Karl Heimbach <heimbach@concentric.net>
To: tentec@contesting.com, qrp-l@Lehigh.EDU
Subject: [8315] Ten-Tec 1320 QRP kit for trade
Message-ID: <35355C7A.524@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello gang,

I've got an unassembled 1320 kit that I'd like to trade for a 1330. I
already have both a 1320 and a 1340 and would like to complete the
series.

Regards,

Karl - W5QJ

Date: Wed, 15 Apr 1998 21:02:37 -0400
From: "Ken Burrough" <ne0c@1st.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [8316] Thanks for the help getting the QRP-L Number
Message-ID: <002b01bd68d7\$4664a420\$056474d1@ne0c.1st.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks to everyone that sent the kinds words and instructions about getting a QRP-L number. Some how, today my number was in one of the postings. I'm now QRP-L # 1524. Who ever helped that much I can only say THANK YOU EVERY MUCH. The following sent postings also and again THANK YOU VERY MUCH; Jim-N3VXI---Andy-KK7HV---Bob-W3CW and John-AA5YX/2.

John-AA5YX asked about the GAP antennas. The GAP Verticals are, at least in my opinion, is the best verticals made. Before I retired from the Air Force, I found out I could put up a vertical in Military Family Housing, but getting a yagi up required a lot of paper work and time. The verticals I tried then worked but not the way I thought they should. After retirement came the yagis and towers and all the problems of keeping them up in Kansas. I moved back home to Ohio in late 1989 and wanted to get on the air quickly and was reading about the GAP antennas. In 1991 at Dayton I bought the GAP Challenger. Its 31.5 ft tall has three 25 foot counterpoise wires and is very broad banded, covers 40 to 10 meters with a swr under 2 to 1 and has a 2 to 1 band width on 75 meters of 135 khz. The Challenger also covers 2 and 6 meters. This antenna has a very low angle of radiation, works DX all over the place. Since then I have purchased the GAP Titan and Voyager. The Voyage will be up sometime this month. To say I like the GAP Antennas is an understatement. I think they are the best. GAP advertises every month in CQ and every other month in QST. They have a web page: gapantenna.com or give Richard a coll at the factory at 561-571-9922. Rich is a great guy and will talk on your nickel as long as you want. John if you have anymore questions drop me an e-mail and I will try to answer them. Thanks for your help also.

72/73 from The Buzzard Roost--KEN NE0C (ex : KA2HJY, N6EVC, KC0WM) QRP-L 1524, QRP ARCI 9154, FISTS 3014.

Date: Wed, 15 Apr 1998 21:11:25 -0500
From: n5inz@juno.com (John M Andrews)
To: qrp-l@Lehigh.EDU
Subject: [8317] Parts For Sale
Message-ID: <19980415.211247.3198.2.N5INZ@juno.com>

Tired of tripping over all the capacitors in the shack.

What:

Thousands upon thousands of tants, monos, silver mica, NP0, ceramic, paper, and film capacitors. All new and names like Arco, AVX, Murata, CD, etc.

The Deal:

2 lbs. for \$5.00(\$4.00 shipping/priority)

10 lbs (and over) \$1.50 per pound plus shipping. Anything over 10, make me an offer I can't refuse.

Sorry- no choice of values. I'll do the best I can at a good assortment. Some packages may contain a LOT of one value. Gotta get rid of the 3-40,000 silver mica caps somehow :-). I *may* include RF connectors, IC's and sockets, etc.
(Bad inventory control). Offer good only for the lower 48.

Please reply via E-mail, not the list.

John- N5INZ

San Antonio

P.S.- You folks who have dealt with me before- No changes- no surprises. Same good stuff and service.

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 15 Apr 1998 20:55:18 -0500
From: Frank Kienast <fgk@iquest.net>
To: qrp-1@Lehigh.EDU
Subject: [8318] Novice QRP - Schedule!
Message-ID: <35356506.4283@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I will be sending at the following times:

Thursday 4/16 2300Z

Friday 4/17 2300Z

Friday 4/17 (actually 4/18 UTC) 0100Z

Sunday 4/19 1900Z

Sunday 4/19 2100Z

Sunday 4/19 2300Z

I will pick a clear frequency between 7112 and 7116. I will send 3 X 3 CQ's, with about 30 seconds to a minute between them. I will call for 15 minutes, changing frequency about every five minutes in case I happen to pick a frequency that is covered by QRM for everyone. Power is 4-5 watts into a makeshift antenna (either indoor or the 20-foot downspout) and an antenna tuner. If you are able to hear me, please respond and I would be honored to have a QSO with anyone on this list. If I am not able to hear you, but you hear me, please send E-mail. I will summarize results and post to the list.

I look forward to possibly making some contacts!

Thanks,
Frank Kienast
KB9QEI

Date: Wed, 15 Apr 1998 21:47:10 -0500
From: "Kelly Ellison" <kelman@dialnet.net>
To: <qrp-l@Lehigh.EDU>
Subject: [8319] QRP Trade QRP Trade
Message-ID: <199804160244.VAA09864@mail.dialnet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hello all!

Have an Alinco DX-70t in near new condition for trade. The rig runs 5/50 Watts with High/Low Switch. Would consider a collection of smaller QRP rigs or an Argonaut II. Would also take a trade plus cash for the right QRP radio. This is a nice rig, but I prefer my Icom 706. I'll be at Dayton. Please contact me direct at kelman@dialnet.net .

Thank you to all who keep QRP-L running. Reading the list is the highlight of my day... pathetic huh?

Kelly Ellison
WB0WQS
Aurora, Missouri
Summit City of the Ozarks

Date: Wed, 15 Apr 1998 22:04:00
From: Roger Braker <msebrakr@telepath.com>
To: qrp-1@Lehigh.EDU
Subject: [8320] elmer 101: IC sockets
Message-ID: <3.0.1.16.19980415220400.0b5f72f6@telepath.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Guys,
I read some where that when doing a PC board, it is sometimes easier to get the IC sockets soldered in if you solder them in first. Is it OK if we do that. Have no experience soldering on PC boards as all of my other projects were perf board or ugly construction. So I have got a couple questions about PCBs. How do you tell which direction diodes go in? I stuck my in backwards tonight for the reverse polarity diode. There was a ring around one of the holes so that is the one I put the diode cathode(side with the ring). I found that was obviously the wrong direction when I got no power. I reversed the diode and bingo. Thanks.

73,
Arnold kd5ckh

Date: Wed, 15 Apr 1998 23:35:39 -0400
From: Michael Maiorana <mikemo@ibm.net>
To: qrp1 <qrp-1@Lehigh.EDU>
Subject: [8321] Elmer101: power supply rejection ratio calculation
Message-ID: <35357C8B.1540@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

First, sorry for the double spaced message. I had to save in the middle of composing the email as my laptop battery was dying. When I pasted back in it added the spaces.

The following was pointed out to me regarding the calculated output ripple of the 78L08 voltage regulator.

I wrote:

>>Also, variations on the input do appear at the output, although greatly
>>attenuated. The spec is 48dB at 120Hz (full wave rectified line ripple).

>>If my math is correct, a one volt change in input voltage will cause a
>>15.8 microvolt change in the output.

The response was:

>Sorry the power supply rejection ratio is in units of power, so the
>power is indeed reduced by 48 db. But, this corresponds to a 4 mV change
>in voltage. This is one of those famous 'db voltage' vs. 'db power'
>problems.

>

> $10^{(-48/20)} = 0.004$

>

>Lesson is very good! At least, for an engineer :-)

Well, I liked the last line ;-) Anyway, I'm not sure of the math here. I
used the formula $\text{dB}=10 \text{ LOG}(x/y)$ and solved for y with x=1 volt and
dB=48.

Can someone explain the math and electronics theory here? I'm lost.

--

72 de ku4qo

Mike Maiorana

Palm Harbor, FL

"De do do do, de da da da. Thats all I want to say to you" The Police

Date: Thu, 16 Apr 1998 03:41:18 +0100

From: "Steve Sorrell" <ap036@detroit.freenet.org>

To: <MichaelN@cycat.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [8322] Re: Please! (was soldering safety)

Message-ID: <001901bd68e1\$2426e120\$b942b3c7@default>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

ARRRRRRRRAG!!!!!! another filter!

Date: Wed, 15 Apr 1998 22:41:50

From: Steven Weber <kd1jv@moose.ncia.net>

To: qrp-1@Lehigh.EDU

Subject: [8323] LED keyer - update
Message-ID: <3.0.3.16.19980415224150.11f74cb4@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Howdy Gang,

Hard to belive, but the run of 100 keyers has sold out. Amazing....

I figured out how to make one button do three things, so the keyer will now have two memories, each 41 characters long. If you would like the original one memory of 88 characters, let me know.

The keyer now does Iambic "B" mode keying. (It was "A" mode)

All parts are on order, (some got here already) the pc boards have a two week lead, figure from Monday

If all goes well, should have these in the mail before Dayton :-)

Thanks agian,

72,

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Wed, 15 Apr 1998 23:53:23 -0400
From: Joe Everhart <n2cx@voicenet.com>
To: qrp-l@Lehigh.EDU
Cc: ku7y@dri.edu
Subject: [8324] Re: Elmer101: soldering safety
Message-ID: <199804160353.XAA53614@nss4.cc.Lehigh.EDU>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Ron, you wrote, in part:

>Hi Jim,

>

>I agree about going off the deep end nowadays!

>

>I grew up carrying murcury around in my pocket to keep my
>coins shinny. And I was not the only one who did. All with
>not problems.

So *that's* why you are that way!

But seriously, I agree about many environmental exposures being overblown these days. Long term intense exposures can cause serious health problems, but I'm afraid many "official" limits are based on very being orders of magnitude below demonstrated toxic levels for the absolute highest sensitivity individuals.

We recently had a bunch of "zero tolerance" folks in our area (SNJ) who shut down a perfectly good water well because it had a small but measurable radioactive content. The water authority wanted to mix the water with that from other wells so that the end result would be *below* measurable values. However they were forced to not use the "tainted" well because residents didn't want *any* radioactive water. The fact that the resultant exposure would have been many orders of magnitude below ambient "normal" values meant nothing to these folks. In fact, many of them live in brick homes and thus receive several times the usual background radiation.

On the other hand there *are* demonstrated risks. Many ladies died of oral cancer back during the Welsbach lantern mantel and radium dial days from exposure to radioactive minerals in factories. But these doses were very high by today's standards and poorly understood at the time.

Oh yeah, I used to have a pool of mercury in the pencil well of my desk in the seventh grade science room. Our teacher had a "quart" jug of mercury and let us use it freely. I played with coins constantly as you did. And our lunch period was right after science class!

Lord, if I had ever caught my kids doing some of the things I did growing up I would have wrung their necks! :-)

72/73,

Joe E., N2CX

from South Jersey y'all!

Date: Wed, 15 Apr 1998 23:02:57 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: mikemo@ibm.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [8325] Re: Elmer101: power supply rejection ratio calculation

Message-ID: <353582F1.85B9CA2D@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike, your unnamed poster is correct. I believe that your error is in using the formula $db = 10 \log (x/y)$. This requires that x and y be stated in terms of power, not voltage. For your example, the formula to use is $db = 20 \log (x/y)$ where x and y are stated as voltages TAKEN ACROSS THE SAME RESISTANCES. Solving that equation for the output voltage change related to a one volt input change gives 0.00398 volts.

There is no such thing as a db voltage or db current. All decibels are created equal and they are all POWER RATIOS expressed logarithmically. Your analysis is probably still not correct even with the factor of 20 instead of a factor of 10. It is highly unlikely that the effective resistance seen at the input to the 78L08 is anything close to that seen at the output where the output voltage is taken.

However, it is a good first cut at estimating the rejection ratio. In any case, the analysis shows that with decent input filtering, the "hum" content of the output is probably negligible.

Michael Maiorana wrote:

>
> First, sorry for the double spaced message. I had to save in the middle
> of composing the email as my laptop battery was dying. When I pasted
> back in it added the spaces.
>
> The following was pointed out to me regarding the calculated output
> ripple of the 78L08 voltage regulator.
>
> I wrote:
> >>Also, variations on the input do appear at the output, although greatly
> >>attenuated. The spec is 48dB at 120Hz (full wave rectified line ripple).
> >>If my math is correct, a one volt change in input voltage will cause a
> >>15.8 microvolt change in the output.
>
> The response was:
> >Sorry the power supply rejection ratio is in units of power, so the
> >power is indeed reduced by 48 db. But, this corresponds to a 4 mV change
> >in voltage. This is one of those famous 'db voltage' vs. 'db power'
> >problems.
> >
> > $10^{(-48/20)} = 0.004$
> >
> >Lesson is very good! At least, for an engineer :-)
>

> Well, I liked the last line ;-) Anyway, I'm not sure of the math here. I
> used the formula $dB=10 \text{ LOG}(x/y)$ and solved for y with x=1 volt and
> dB=48.
>
> Can someone explain the math and electronics theory here? I'm lost.
> --
> 72 de ku4qo
> Mike Maiorana
> Palm Harbor, FL
>
> "De do do do, de da da da. Thats all I want to say to you" The Police

--

72/73, George
Amateur Radio W5YR (since 1946)
QRP-L #1373 QRP ARCI #9583
AutoPOWER Systems, Fairview, TX (30 Mi. N. of Dallas)

Date: Thu, 16 Apr 1998 00:19:58 -0400
From: Michael Maiorana <mikemo@ibm.net>
To: w5yr@swbell.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [8326] Re: Elmer101: power supply rejection ratio calculation
Message-ID: <353586EE.3B37@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

George T. Baker wrote:

>
> Mike, your unnamed poster is correct. I believe that your error is in
> using the formula $db = 10 \log (x/y)$. This requires that x and y be
> stated in terms of power, not voltage. For your example, the formula to
> use is $db = 20 \log (x/y)$ where x and y are stated as voltages TAKEN
> ACROSS THE SAME RESISTANCES. Solving that equation for the output
> voltage change related to a one volt input change gives 0.00398 volts.

Ok, that clears up the math part. I just got through the "big book"
(Electronics engineers reference book) and it showed me the err of my
ways ;-) But I have another question. Since the value 48dB is a voltage
ratio, why does it matter what resistance it is across. A volt is a
volt, across 1 ohm or 1 million ohms. Power and current are obviously
different.

Inquiring minds want to know.....

--

72 de ku4qo
Mike Maiorana
Palm Harbor, FL

"De do do do, de da da da. Thats all I want to say to you" The Police

Date: Wed, 15 Apr 1998 22:10:27 -0600
From: "Steve Hurst" <shurst@magiclink.com>
To: <weightdn@bright.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [8327] Re: Low-cost resistor storage
Message-ID: <199804160446.AAA05382@nss4.cc.Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Mike and Gang,

If you want to store electronic parts and gizzmo's in tubes, I have an idea for you to consider. Check out your local "coin" and "stamp" shop. You know coin dealers and stamp dealers. They usually carry tubes for coins, all denominations available , cents thru dollars. Some are square shape and stack nicely. Just one idea out of many that cross your screen in a 24 hr period , like you needed another idea , right ?? :-)

73,
Steve Hurst
KA7NOC (southern Idaho)
<http://www.magiclink.com/web/shurst>
shurst@magiclink.com

> From: Mike Rhodes <weightdn@bright.net>
>
> I don't know if this is an option in the UK but I went to the local Revco
> Pharmacy and purchased a couple dozen plastic prescription bottles. Most
> of
> them are about 1 1/4 inches in diameter but I also picked up a few of the
> larger, 1 7/8 inch bottles.

-----SNIP-----

> for now they are in shoeboxes - not a good solution without dividers -
> they
> won't stand up and you can't keep them in any sort of order. I simply
write

> the value or contents in Sharpie marker on the top. Works well for most
> any
> small component and the bigger bottles will hold pretty good sized items.
> The bottles are tinted orange but you can get a pretty fair look at the
> contents through the sides.
>
> 72 de Mike / W8DN
>

Date: Thu, 16 Apr 1998 00:03:16 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: mikemo@ibm.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [8328] Re: Elmer101: power supply rejection ratio calculation
Message-ID: <35359114.99201872@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike, let me try again:

48 DB IS A POWER RATIO, NOT A VOLTAGE RATIO

More math:

if you express the power at one point as the voltage x squared divided
by the resistance r across which the voltage is measured, and the power
at another point as the voltage y squared divided by the resistance R
the basic equation

$$db = 10 \log (x^2/r|y^2/R)$$

which relates the two power levels can be stated as

$$db = 20 \log (x/r|y/R)$$

which can be further simplified, for equal resistances, r equal to R, to

$$db = 20 \log (x/y)$$

One volt across one ohm is a power level of 1 watt. One volt across one
million ohms is a power level of one-millionth of one watt. That is a
power ratio of one million or a power difference of 60 db. So,

resistance DOES matter!

Power and current are not "different." They are all related by simple Ohm's Law relationships to voltage and resistance.

Make life much easier for yourself and your readers: forget you ever heard the term "voltage db" and ignore anything written by anyone who uses such terms. They are meaningless and lead only to confusion.

Anything expressed in decibels is and must be and can only be a ratio of two power levels, even though measurements of voltage or current may be used for the calculation. Even here, treachery is afoot if the associated resistance levels are not taken into account, as the above example makes clear.

--

72/73, George

Amateur Radio W5YR (since 1946)

QRP-L #1373 QRP ARCI #9583

AutoPOWER Systems, Fairview, TX (30 Mi. N. of Dallas)

Michael Maiorana wrote:

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> different.

>

> Inquiring minds want to know.....

> --

> 72 de ku4qo

> Mike Maiorana

> Palm Harbor, FL

>

> "De do do do, de da da da. Thats all I want to say to you" The Police

--

72/73, George
Amateur Radio W5YR (since 1946)
QRP-L #1373 QRP ARCI #9583
AutoPOWER Systems, Fairview, TX (30 Mi. N. of Dallas)

Date: Thu, 16 Apr 1998 00:35:05 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: mikemo@ibm.net
Cc: qrp-l@Lehigh.EDU
Subject: [8329] [Fwd: Elmer101: power supply rejection ratio calculation]
Message-ID: <35359889.829565F8@swbell.net>
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary="-----A2EA1C08E8E55A4F20D4BB40"

This is a multi-part message in MIME format.

-----A2EA1C08E8E55A4F20D4BB40
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

For some reason, this got rejected when submitted. Trying again . . .

--
72/73, George
Amateur Radio W5YR (since 1946)
QRP-L #1373 QRP ARCI #9583
AutoPOWER Systems, Fairview, TX (30 Mi. N. of Dallas)

-----A2EA1C08E8E55A4F20D4BB40
Content-Type: message/rfc822
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

Message-ID: <35359114.99201872@swbell.net>
Date: Thu, 16 Apr 1998 00:03:16 -0500
From: "George T. Baker" <w5yr@swbell.net>
Reply-To: w5yr@swbell.net
Organization: AutoPower Systems
X-Mailer: Mozilla 4.02 [en]C-DIAL (Win95; U)
MIME-Version: 1.0
To: mikemo@ibm.net
CC: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: Re: Elmer101: power supply rejection ratio calculation
References: <35357C8B.1540@ibm.net> <353582F1.85B9CA2D@swbell.net>
<353586EE.3B37@ibm.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

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72/73, George
Amateur Radio W5YR (since 1946)
QRP-L #1373 QRP ARCI #9583
AutoPOWER Systems, Fairview, TX (30 Mi. N. of Dallas)

-----A2EA1C08E8E55A4F20D4BB40--

Date: Thu, 16 Apr 1998 00:09:41 -0600 (MDT)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-l@Lehigh.EDU
Subject: [8330] QRP TTF Rules on R. Havana Cuba
Message-ID: <Pine.SOL.3.91.980415235356.9400A@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

I emailed the rules for the NorCal QRP TTF to Arnie at Radio Havana Cuba and just got an email that he will be discussing the contest, the rules and encouraging hams to participate on his "DX Unlimited" program this weekend. Whoda thought QRPing would be shared with the world over an

international broadcaster like Radio Havana Cuba? So get your shortwave radios dusted off and the tape recorder ready ... this will be a classic.

"DX Unlimited," by Arnie Coro, C02KK, is heard:

Sunday 0130Z - 6000, 9820, 9830 KHz (That's saturday nite in the U.S.)

Sunday 0330Z - 6000, 9820, 9830 KHz

Sunday 0530Z - 6180, 9820, 9830 KHz

As I recall, on the half-hour, they have a brief news headlines, and "DX Unlimited" actually starts at :35 past the hour. You'll know when the program starts, as Arnie starts out by calling CQ de RHC in CW! Easy to find, and always an S-9+ here in New Mexico. And yes, RHC does QSL reception reports. Now let's hope Arnie can persuade some Cubans and other DX stations to participate in QRP TTF. That would add a measure of spice to it, not to mention a few more multipliers :-)

72, Paul NA5N

Date: Thu, 16 Apr 1998 00:18:48 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-1@Lehigh.EDU, cqc@mtechnologies.com
Subject: [8331] New Stuff and Price Reduction
Message-ID: <199804160619.AAA19196@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Just in case you haven't already spent your tax refund [g]...

Milestone Technologies, Inc. has just received another shipment of keys from Hi-Mound in Tokyo apan. Here are the highlights--

MK-706 Dual Paddle (\$89.95) is back in stock and all backorders have been filled.

HK-702 Straight Key (\$59.95). Mechanically similar to the HK-708 this is a "high profile" key with a thick ABS base and a mushroom knob on a straight lever, putting the top of the knob 3" above the desktop.

MK-702 Single Paddle (\$99.95) This one may not be around long-- it's on a 3/4" thick natural marble base, and the dual paddle version has been discontinued.

HK-802 "Swedish" Presentation Key price reduction. Due to favorable conditions and believe it or not a break from Customs, we have been able to reduce the price from \$299.95 to \$249.95. (And yes-- the two people who already bought this key will be getting a check or credit for \$50).

We've also received samples of the brass or gold on rosewood keys, paddles, and bugs from Llaves Telegraficas Artesanas in the Balearic Islands, aka "the Spanish keys." We'll get pix on the web site as soon as we can work out the prices. Or if you can't wait to see them, surf to <http://www.arrakis.es/~llatelar>.

Images of the new Hi-Mound products are on the web site at <http://www.mtechnologies.com/keys.htm> where you can use our secure credit card ordering facilities, or call 800-238-8205 to order by phone.

Thanks for the bandwidth....

73
Marshall Emm
N1FN/VK5FN
n1fn@mtechnologies.com
Milestone Technologies
Software, kits, tools...
<http://www.mtechnologies.com>
(303)752-3382
--

Date: Thu, 16 Apr 1998 00:53:43 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-1@Lehigh.EDU, cqc@mtechnologies.com
Subject: [8332] Two odd stories
Message-ID: <199804160654.AAA19701@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

OK, probably it is the writer that is odd (just looked at the clock and in fact I MUST be nuts) and not so much the stories, but I thought they might be interesting to you so here goes.

Had to go to RS the other day and now I REALLY have questions. The

manager was standing outside having a smoke when I drove up in the Black-Beauty-imitation-cop-car-mobile-shack with all sorts of antennas on it and my callsign on the license plate. As I walked up to him he pointed to the car and asked "Is that a ham?" I was momentarily taken aback, then realized it was just possible that he was pointing to Mighty Samson, the QRP dog, who was sitting up in the front seat and who can copy about two characters of Morse and so is in fact more of a ham than some, so I replied "Yep."

"Well," he says, "then I guess you might be interested in a special we've got going here-- it's a four meter radio." Somehow it wouldn't surprise me if RS actually HAD come out with a 4M radio and decided to discontinue it immediately, but after a strange session of questions and answers (could have used a phrase book or dictionary for whatever language that guy talks) I eventually determined that it was a 70cm HT he was talking about. I had questions; he had answers-- there was just no relationship between them.

The other thing has to with the fact that my xyl works nights and sleeps days. About a year ago I decided a neat solution to the problem of ambient neighborhood noise during the day would be a white noise generator, so I built one. Worked great, and I was real proud of it since I seldom build much of anything from scratch. But about the third afternoon I happened to get onto 2M FM, at which point the thing started squawking like a two cats in one bag and woke her RIGHT up. Project shelved semi-permanently.

Then last weekend I saw a Velleman PINK noise generator kit at TA, and grabbed it. Added a 1W audio amp so I can get LOTS of pink noise and not only does it work well, it seems to be immune to RF thank goodness. Anyhow, the curious thing is that when I first looked in the kit I saw the usual "ammo strip" of resistors. But when I started to build, I realized that the ammo strip contained ALL the resistors, AND the diodes-- AND in the order in which they are needed! I've never seen that done before (sure speeds things up) but can't imagine what's involved in doing it. Sure looked like a machine product, but still would require a lot of work on someone's part. The Velleman guys are very big on presentation, and I guess that's just part of the service.

73

Marshall Emm

N1FN/VK5FN

n1fn@mtechnologies.com

Milestone Technologies

Software, kits, tools...

<http://www.mtechnologies.com>

(303)752-3382

--

Date: Thu, 16 Apr 1998 01:03:07 -0700
From: Dave Fifield <fifield@pacbell.net>
To: QRP List <qrp-l@Lehigh.EDU>
Subject: [8333] Elecraft K2 Presentation & Demo!!!
Message-ID: <3535BB3B.37FD@pacbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Folks,

I gotta tell ya....I managed to badger Eric WA6HHQ into doing a K2 presentation at our local radio club (the West Valley ARA) tonight. I'm the VP this year, so I get to set up the meeting presenters - great job, 'cause I get to pick the topics!

I got there early and set up my W6MMA/St.Louis Vertical ready for the talk and demo. Then just before the meeting kick-off, who should turn up but Wayne, N6KR!! What a surprise. So we had the benefit of both of the Elecraft partners and had a great joint presentation from the them! There were about 35 members there tonight and get this, not one of 'em fell asleep! I think they were all very impressed indeed. We had about a half hour of questions following the presentation then Wayne put the K2 on the air (at a bit more than 5W, but still it was QRP in spirit) on 40m and gave us all a first hand go with the controls. Wayne worked K1A0 (I think that was the call, he was running 400W and gave us a 479!) using a small hand key at just under 20wpm....it sounded REAL NICE!

Folks, this rig is ACE!! You will be blown away when you see it. Wayne and Eric have thought of just about every single operating nuance that you'd care to come up with, and put it in the rig. Variable IF bandwidth, variable (tracking) offset, variable side tone level, variable power, variable just about everything BUT all the while maintaining its simple to use elegant ergonomic style. Oh yes, and the RX is a "proper" RX that is going to be able to cope with strong signals as well as dig out those weak ones - I'm a very strong advocate of good receiver design - the K2 gets my vote!

I guess we are all going to have to wait till they put the finishing

touches on the boards and case etc. I don't think they'll miss the Dayton deadline, not based on what we saw tonight. We had folks who were ready to whip out their checkbooks right there and then (including me!), but we're gonna have to be patient for just a teensy bit! This one is going to be worth it, believe me. Incidentally, for those people fed up with waiting for "other rigs" to appear, please don't tarnish the Elecraft folk with the same sentiment; these guys have met their promised dates so far and look like completing this rig kit well on schedule.

OK, that's it, I couldn't keep this to myself, had to tell you all. I think the K2 is going to be the star of the whole Dayton show... we'll see. See you there.

Cheers,
Dave Fifield, AD6AY

Disclaimer: I'm not associated with Elecraft in any way, shape or form....I just happen to like what they're doing, OK?

Date: Thu, 16 Apr 1998 09:56:04 +0100
From: pmk@juno.com (Patrick M Kvitkauskas)
To: qrp-l@Lehigh.EDU
Subject: [8334] Fairly cheap parts storage. Manila , Space saver.
Message-ID: <19980416.095641.8846.3.pmk@juno.com>

I have been passing on the cheap resistor storage thread as most are using bottles and parts drawers.

Bottles take up to much space as storage bin's and drawers.

I use those little envelopes like you get parts in . I noticed that most use pill jars so why not use what illegal drugs come in as they try to hide everything hi.

I started with sandwich bags (and still do) for that big box of wire that takes 20 minutes to get untangled every time you need something out of it. The sandwich bags are not so great for small quantity parts storage though.

I use 2 types of envelopes. 3 1/8 X 5 1/2 (#5 1/2 coin) and 2 1/4 X 3 1/2 (#1 coin) . They are manila envelopes and easy to write on with a pencil and re usable as well.

The nice thing is storage space is greatly reduced.

They can be found at most office supply stores.
I paid \$15.00 buks for a box of 500 of the #5 1/2s
and I think \$13.00 for the #1's.

Someone mentioned Baggy Bob and couldn't help but laugh
as I do the same thing hi.

72/73 de Patrick KD4OBQ

AR

You don't need to buy Internet access to use free Internet e-mail.
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Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 16 Apr 1998 06:07:02 -0400
From: THE ONE AND ONLY <mitch96@pobox.com>
To: Qrp-1@Lehigh.EDU
Subject: [8335] WTB ST LOUIS VERT
Message-ID: <3535D846.2F3A@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

the subject says it all. does anyone want to part with one??
send me ur price and condition
--

Mitch, Ww4mL
Eschew Obfuscation!

Date: Thu, 16 Apr 1998 09:21:32 -0400 (EDT)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: suman@cs.umd.edu, madhu@cs.umd.edu, emgold@wam.umd.edu, pinkes@wam.umd.edu,
anielsen@squid.umd.edu, ncharles@wam.umd.edu, yongrim@wam.umd.edu,
tmurphy@itsc.org, snainis@itsc.org, Hillelglazer@usa.net, dmarkle@vt.edu,

"Stacey (Toby) Widdicombe" <tobyw@cpcug.org>
Cc: eax@w3eax.umd.edu, Laurel ARC <larc-1@webtrek.com>, qrp-1 <qrp-1@Lehigh.EDU>
Subject: [8336] Naval Transmitting Facility Tour info
Message-ID: <Pine.LNX.3.95.980416092022.7716G-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

<http://www.mindspring.com/~coriolis/tour.htm>

Saturday, April 18, 10 a.m.

Looks REALLY cool!

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
* 6m 82 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *
* <http://w3eax.umd.edu/~ham> * ARRL Life Member /Laurel ARC/UMARA *
*** 301-549-1022 h 301-982-1015 w *** 35 wpm HF mobile CW Neon ***

Date: Thu, 16 Apr 1998 09:28:37 -0400 (EDT)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: qrp-1 <qrp-1@Lehigh.EDU>
Subject: [8337] Naval Transmitting Facility Tour, Annapolis, MD
Message-ID: <Pine.LNX.3.95.980416092715.7716I-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Definitely not QRP, but if you're into RF, this may interest you.

(I will be there)

<http://www.mindspring.com/~coriolis/tour.htm>

Saturday, April 18, 10 a.m.

Looks REALLY cool!

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
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* <http://w3eax.umd.edu/~ham> * ARRL Life Member /Laurel ARC/UMARA *
*** 301-549-1022 h 301-982-1015 w *** 35 wpm HF mobile CW Neon ***

Date: Thu, 16 Apr 1998 09:43:14 -0300
From: Dave Marling <dbm@klis.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [8338] Deep cycle battery
Message-ID: <3535FCE2.1C52931A@klis.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Can anyone point me to information on charging requirements/chargers for deep cycle batteries?

Dave
VE1VQ

--
Understand the problem before you attempt the solution.

Date: Thu, 16 Apr 1998 08:06:05 +0500 (GMT-5)
From: Jim Osburn <wd9eyb@butler.indiana.net>
To: qrp-1@Lehigh.EDU
Subject: [8339] Re: Low-cost resistor storage
Message-ID: <199804160306.IAA08202@butler.indiana.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

I use coin envelopes to store resistors and other small parts.
500 coin envelopes costs about \$10.00 at the local office supply store.
I put one value of resistor in each envelope and write the value outside.
I have them standing on end in a box that creates a file of resistors
that's easy to sort through when looking for a particular value.

Jim, WD9EYB
wd9eyb@indiana.net

Date: Thu, 16 Apr 1998 09:28:26 -0400 (EDT)
From: n4js@pobox.com
To: vole@primenet.com

Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [8340] RE: QRPTTF Op Hit List - Growing Fast!
Message-ID: <XFMail.980416092826.n4js@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 8bit
MIME-Version: 1.0

On 15-Apr-98 Joe Gervais typed:

>
>Howdy again folks,
>
>Wow! Looks like we're closing in fast on all
>50 states active for QRPTTF - WAHOO! Gonna be
>a "good-un", as momma would say. :-) Bruce
>(KS4V) is putting KY on the air, and Brent
>(AB0FR) is going to get QRP ND active too.
>

OK, since I won't have the baot in the water, I am driving over to the DE/PA border, in the extreme northern part of DE. (Very close to the HIGHEST point in DE at 442 ft!) Will be on 40, 20, and 15 definitely. May get on 10 or even 80. So look for N4JS/3 DE/PA!

Sent at 09:28:25 on 16-Apr-98

John L. Sielke n4js@amsat.org n4js@pobox.com
| \ | | | | _ | | / _ _ | n4js@qsl.net NJ Grid:FM29LN
| . ' | | _ _ | | | | \ _ _ \ http://www.qsl.net/n4js NJ-QRP #57 QRP-L #884
| _ | \ _ | | _ | \ _ _ / | _ _ / QRP-ARCI CQC #443 CQrp #50 AKQrp ARQrp
NE-QRP #507 G-QRP #9544 NorCal #1989 QCWA FISTS #2781 ARS #243

Date: Thu, 16 Apr 1998 10:39:42 -0400 (EDT)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: camqrp@cyberg8t.com
Cc: qrp-l <qrp-l@Lehigh.EDU>, eax@w3eax.umd.edu, anielsen@squid.umd.edu, Laurel ARC <larc-l@webtrek.com>, Matthew S Swain <mss4@dana.ucc.nau.edu>, tmurphy@itsc.org, bipsy@juno.com, "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>, tobyw@cpcug.org
Subject: [8341] NF3I ARCI Spring Contest Report
Message-ID: <Pine.LNX.3.95.980415145547.982N-1000000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

This report is subtitled,

"How to remain active yet enjoy ham radio immensely."

Band	QSOs	Valid	QSOs	QSO	Pts.	SPCs
80	4	4	17	4		
40	49	49	209	22		
20	25	24	102	15		
15	10	9	42	6		

Total QSO Points = 370

Total SPCs = 47

Pwr multiplier (3w) = x7

Total score = 121,730 points

Time on air - approx. 9 hours (hard to judge, see below)

Equip. used -

Wilderness Sierra / TH6DXX @ 100' (briefly - 5 QSOs)

IC-706 / Screwdriver antenna (81 Qs, incl. 40/80m Qs)

I didn't even plan on DOING the contest...figured I'd hand out a few Qs to people, that's all, as I had a zillion things to do this past weekend. As such, my logging at the start was quite poor, which probably cost me a few points in the final analysis. Much of the time, I was actually in motion, which gave my tape recorder a good workout and was an extra, added challenge.

Saturday morning, I went to someone's house north of Baltimore (40 miles north) and bought a pair of used Rollerblades and some other stuff. One exciting thing was finishing a QSO with K4MX, trying to get that nr/pwr through the QSB/QRM/QRN, just seconds before I dove underground and into the tunnel under Baltimore harbor. The guy I got the rollerblades from thought what I was doing was "pretty damned cool...you don't actually know Morse code, do you? Wow, that's cool!"

Saturday afternoon, the weather was great and I walked about 5 miles and did some rollerblading. Saturday night, I'd been invited to KE30M's family's Passover Seder, which knocked out that evening.

Sunday morning, I figured I'd go down to the U of MD with Maggie (if all work out I'll have her at Dayton with me) to do some early morning squirrel hunting (we never catch any, nor would she know what to do if she ever caught one). This would tire her out, thus giving me the chance to sit in the club station and fire up the Sierra. But after 45 minutes of exhausting sprinting all over campus, I was tired and she wouldn't sit still. I got in about 30 minutes of operating from there, and headed home.

The weather, again, was great, and I looked at my backyard at a winter of neglect. I proceeded to spend the next 3 hours doing yard work, digging up dandelions and grasses growing between bricks, as well as a few weeds that were about 3' tall.

Then I did a little more rollerblading and listened to the ballgame.

So where's the contesting here? IN BETWEEN events, driving from place to place. THAT's why I have a mobile station - I NEVER stop moving, but when I'm in the car, I can do it GUILTLESSLY!

FINALLY, later Sunday afternoon, I finally settled down and concentrated on the contest. HOW enamored am I with my mobile setup? To give you an idea, I've got a Paragon and a Corsair II that run out to a G5RV in the woods behind the house, and I STILL feel that my mobile setup outperforms them. It was 65 degrees and sunny. I hopped in the car, opened the window, put my feet up, reclined a bit, and worked virtually everyone I could hear. Wow, this was a BLAST - like, almost as much fun as Sweeps or Field Day (at least the operating portion of it).

It amazed me how loud the guys from Arizona were on Saturday afternoon. I expected to work a bunch Sunday afternoon, but the opening just wasn't there as it had been the day before. The west coast was solid, as was the Mississippi River zone, but little in between (except for Colorado).

I am still in amazement over how loud N4BP is during every contest, at any power level, and at the number of people who answered my CQs when I was using nothing more than my mobile-mounted Screwdriver antenna.

What was reinforced?

Don't be afraid to use your filter/ear combination!

It's amazing how much stuff lives underneath and between the big signals.

A 10' coaxial run to a well-matched antenna has very low loss!

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
* 6m 82 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *
* <http://w3eax.umd.edu/~ham> * ARRL Life Member /Laurel ARC/UMARA *
*** 301-549-1022 h 301-982-1015 w *** 35 wpm HF mobile CW Neon ***

Date: Thu, 16 Apr 1998 06:38:01 -0700
From: Jeff Grudin <grudin@pacific.vdbs.com>
To: QRP-L <qrp-l@Lehigh.EDU>, msebrakr@telepath.com
Subject: [8342] Re: elmer 101: IC sockets
Message-ID: <353609B9.64E2@vdbs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Arnold,

I put the socket (or IC) in place and tack solder each corner. Then check to see if the socket is fully seated. If not heat a corner and while heating fully seat the socket. Once seated fully solder all pins including the ones you tack soldered.

Diodes are polarized. The end with band on it is the negative or cathode end. (I remember this because the anode is like anode or +ode, kinda stupid huh!) Most silkscreened boards have the band marked on it and you just place the band end on the board as shown. If not, then you need to look at the schematic. +side ->|- -side The line side of the symbol is the cathode or banded end.

Hope that helps.

--

73 de Jeff AC6KW
grudin@vdbs.com

Private Practice : Companion Animals and Exotics
Ocean Animal Clinic / Cat Clinic of Santa Cruz
Santa Cruz, California

Norcal QRP #1292 QRP-L #16 ARS #351
AR Qrp #131 Bumble Bee #19

QRP'ers do it with less energy (but lot's of enthusiasm)!

Date: Thu, 16 Apr 1998 10:23:13 EDT
From: DENNIS MO <DENNISMO@aol.com>
To: qrp-l@Lehigh.EDU
Subject: [8343] New Call
Message-ID: <34d7be02.35361453@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=ISO-8859-1

Content-transfer-encoding: quoted-printable

Hi Boys & Girls -

My new call arrived today via the QRZ WebSite! I am now officially AD6EZ=Z=0A(formally KF6NJQ)! I guess I am more officially an EXTRA now and this way=0Acool folks.

Thanks to all for helping out a greenhorn radio op. You've all been great!

73's es 72's de Denny / AD6EZ,

Denny / AD6EZ,
FISTS # 4570 / QRP-L # 1359
10-X # 69158
Promise Keeper

HAMing It Up Everyday In Goleta, CA

Section: Santa Barbara
Long: 34.437 N Lat: 119.868 W=A0=A0=A0
Grid: DM04BK

Date: Thu, 16 Apr 1998 07:28:30 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Patrick M Kvitkauskas <pmk@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [8344] Re: Fairly cheap parts storage. Manila , Space saver.
Message-ID: <Pine.BSI.3.96.980416072436.5463A-100000@usr09.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 16 Apr 1998, Patrick M Kvitkauskas wrote:

> I have been passing on the cheap resistor storage thread as
> most are using bottles and parts drawers.
>
> Bottles take up to much space as storage bin's and drawers.
>
> I use those little envelopes like you get parts in . I noticed that
> most use pill jars so why not use what illegal drugs come in
> as they try to hide everything hi.
>

I have been using small zip-lock bags with white writing panels. I can get them at a local jewelry supply store in boxes of 1,000 for \$7.00. They have sizes ranging from 1"x1" to 4"x6". The 2"x2" is nice for surface mount parts, and the 2"x3" can hold up to 100 leaded resistors. You can write the value, etc., on the white panel as well as see inside the bag.

I then store the small bags in parts drawers to keep everything organized.

```

      /-----\
     /  What's all this  \
    / extinct stuff, anyhow? \
   /-----\
  _ | /
oo\
(--) \
     \  . ' .
     \  ' '
     \  ( ) \
     \  '-| )__| :. \
     \  | | | | \
     \  c__; c__; ' -.. '> .__

```

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Thu, 16 Apr 1998 07:29:15 -0800
From: Ward Hill <w_hill@ns.net>
To: qrp-l@Lehigh.EDU
Subject: [8345] tax refund [g]...
Message-ID: <103130300b15bd4206210@[207.159.15.48]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

What is that????

72,

Ward Hill, WA6FUH

Engineer at KOVR, Channel 13 (CBS), Sacramento, CA
Life Member ARRL 10-10 #27139 QRP-L #1117 AK/QRP #249
All QRP, All home built/home brew equipment
w_hill@ns.net
WA6FUH@KM6PX.#NCA.CA.USA.NOAM

Date: Thu, 16 Apr 1998 11:33:34 -0400 (EDT)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: DENNIS MO <DENNISMO@aol.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [8346] KF6NJQ => AD6EZ
Message-ID: <Pine.LNX.3.95.980416113145.9009D-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
Content-Transfer-Encoding: QUOTED-PRINTABLE

Does it make you more of an Extra? No.

Does it make it easier for people to REMEMBER your call? Absolutely.

Does it have a catchy sound? Sure, it's "EZ."

Will you be less tired sending it? I think so, yes.

Congratulations! You've done well in the callsign lottery!

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
* 6m 82 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *
* <http://w3eax.umd.edu/~ham> * ARRL Life Member /Laurel ARC/UMARA *
*** 301-549-1022 h 301-982-1015 w *** 35 wpm HF mobile CW Neon ***

On Thu, 16 Apr 1998, DENNIS MO wrote:

> Hi Boys & Girls -
>=20
> My new call arrived today via the QRZ WebSite! I am now officially AD6E=
Z
> (formally KF6NJQ)! I guess I am more officially an EXTRA now and this wa=
y
> cool folks. =20
>=20
> Thanks to all for helping out a greenhorn radio op. You've all been grea=
t!

>=20
> 73's es 72's de Denny / AD6EZ,
>=20
> Denny / AD6EZ,
> FISTS # 4570 / QRP-L # 1359
> 10-X # 69158
> Promise Keeper
>=20
> HAMing It Up Everyday In Goleta, CA=20
>=20
> Section: Santa Barbara=20
> Long: 34.437 N Lat: 119.868 W=A0=A0=A0
> Grid: DM04BK
>=20
>=20

Date: Thu, 16 Apr 1998 08:43:26 -0600 (MDT)
From: af852@rgfn.epcc.edu (William R Colbert)
To: qrp-l@Lehigh.EDU
Subject: [8347] Re: QRPTTF Rules on Radio Habana
Message-ID: <199804161443.IAA27174@rgfn.epcc.edu>

Arnie's program "Dx Unlimited is also on Wednesday (UTC) same times and frequencies, which is Tuesday eve locally. Material is usually different and he has the updated flux/spot info in addition to his normal program subject. In addition, the Dx Unlimited page of Radio Habana's web site is well worth taking a look at if you have the capability.

<http://www.radiohc.org/>

Good Listening!
73 Ray

--

"Politicians are like nappies. Both should be changed regularly -- and for the same reason"
Scotsman's Diary - 1997

--
Ray Colbert, W5XE

00TC 3618, SOWP 1064M
El Paso, Tx (FAR WEST TEXAS!)
also: w5xe@juno.com

Date: Thu, 16 Apr 1998 07:41:28 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-1@Lehigh.EDU
Subject: [8348] Elmer101: Dave's Diode Diatribe
Message-ID: <19980416.074128.10166.0.gsurrency@juno.com>

Gang,

In the SW40+, Dave *always* mounts the diodes with the cathode (banded end) sitting up in the air. If the cathode connection needs to be connected into the circuitry the other way, he has simply flipped the diode around, so that the cathode end is still "up-in-the air". You can see this in the way the four diodes are wired for the T/R switch diodes. Don't let this throw you, just observe it before you start questioning it and it will become clear to you. (I hope!) ;-)

Neat and simple. Just bend those diode leads all the same way, and look at the circle outline on the PCB to determine which way to mount the critter. :-) :-)

I've been using my newly constructed SW-40+ to have a few QSO's. Nice sharp CW filter. This little rig does not drift! I have already made a few mods to mine to soften the keying a bit, and the power output is 5 watts plus, so I had to turn down the drive level. Once everyone has a go at this sharp little kit, I'll post the mods for you to try.

BTW, my rig had been working beautifully, and then the receiver stopped working. I checked everything, and found no reason for it to be deaf. Nope, the toroid leads had been well scraped and tinned, so it was not a cold solder joint on the wire leads. I finally took it into the garage and gave the PCB a strong blast of compressed air. Bingo! It started working again! I suspect a small piece of tin plating or solder remnant had crept under one of the IC sockets, and found refuge there. So watch out for lead shavings or / solder particles shorting out in the tiny crevices or PC traces and causing you much grief. Murphy is everywhere! ;-)

cheers and 72,

Gary Surrency AB7MY
S&S TAC-1(40&80m) ARK30 38S OHR100 w/KC-2 HW-9 TS-570D

QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 16 Apr 1998 10:50:43 -0700
From: LYN <designserv@ipass.net>
To: dbm@klis.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [8349] Re: Deep cycle battery
Message-ID: <353644F2.3EF4522@ipass.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dave Marling wrote:

> Can anyone point me to information on charging requirements/chargers for
> deep cycle batteries?

Dave,

The very best place to get info about the charging of a particular
battery
is from the manufacturer. If the manufacturer is not willing to furnish you
with technical bulletins with full details, then you have obviously chosen
the wrong brand of battery.

If, however, you are unable to determine the brand or to locate the
manufacturer, then I'll be glad to look up copies of my previous ramblings
on the subject and forward them to you.

Lyn, W4WDN

Date: Thu, 16 Apr 1998 09:06:24 -0600

From: Brad Mugleston <bmug@gw1.com>
To: "'qrp-l'" <qrp-l@Lehigh.EDU>
Subject: [8350] Elmer101
Message-ID: <01BD6916.F01D7020@pps-pc10.gw1.com>

Looks like the build is on. I didn't find out until 10:30 last night (Wednesday) when I read my digest mode QRP-L. For those of you not on the Digest Mode let me give you some figures. The digest I got Wednesday (actually it was probably late Tuesday after work) covered a period from Monday April 13 at 18:08 [-0500] through Tuesday April 14 at 16:32 [-0600] which is probably about the time they are sent out.

ANYWAY, one of my Elmers (I don't know who I have so many between the Colorado QRP Club and the QRP-L) suggested before I ever build a radio I photo copy both sides of the board to check for solder bridges. If you haven't started building yet go get a photo copy. Yes I know there are copies in the manual but (1) They are not actual size and (2) with extra copies you can write all over them and not ruin the original.

Now lets melt solder.

De KB0ROL, Brad - SW-30+

Date: Thu, 16 Apr 1998 10:16:07 -0500
From: Mike Manship <mjmanship@iquest.net>
To: qrp-l@Lehigh.EDU
Subject: [8351] Re: tax refund [g]...
Message-ID: <3.0.2.32.19980416101607.00872ce0@pop.iquest.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 07:29 AM 4/16/98 -0800, you wrote:

>What is that????

>

>72,

>

>Ward Hill, WA6FUH

That's where you loan the government money at zero percent interest.
I'd rather they loaned ME the money at zero percent interest.

Mike W9OJ

Date: Thu, 16 Apr 1998 10:19:43 -0500
From: ac5ez@webtv.net (Larry B)
To: qrp-1@Lehigh.EDU
Subject: [8352] new call
Message-ID: <199804161519.IAA23077@mailtod-122.bryant.webtv.net>
Content-Type: TEXT/PLAIN; CHARSET=US-ASCII
Content-Transfer-Encoding: 7BIT
MIME-Version: 1.0 (WebTV)

Denny
>From one ez to another ez, congrats on new call.
Larry ac5ez
Qcwa
Fists # 4733
qrp-1 # 1515
Alaska qrp # 378
AR # 388
10x# 17212

Date: Thu, 16 Apr 1998 08:25:37 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Mike Manship <mjmanship@iquest.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [8353] Re: tax refund [g]...
Message-ID: <Pine.SOL.3.96.980416082459.7266B-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 16 Apr 1998, Mike Manship wrote:

>
> That's where you loan the government money at zero percent interest.
> I'd rather they loaned ME the money at zero percent interest.
>

I just wish they would let me keep mine!

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Thu, 16 Apr 1998 11:23:14 -0500 (CDT)
From: jdenison@morelr.com (JOEL DENISON)
To: qrp-l@Lehigh.EDU
Subject: [8354] Remember That "vertical yagi" with ropes and wire & trees?
Message-ID: <199804161623.LAA22388@m20.morelr.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi gang:

just an up-date... you know this thing is amazing... evidently I have it pointed down the heart of europe... or close enough... I've worked 9a's, OK's and others... I got a 589 from an OK... I hear a lot of strange calls... The thing really works!!!

The reflector has one end just one brick and one inch of rope off the ground. As the ground rises, (don't have this in Dixie) the driven element isn't much better off. Only the director has more than a foot of clearance or so...

I have interlaced a forty meter three element yagi with the thirty meter yagi and have the forty meter one pointed sw...(towards the lower 47*) one nite on the century club 40mtr early net I listened to about all the lower forty eight... and worked florida and california at 4w ssb... As soon as I work a couple of guys that want maine I think I will drop the ant and point it toward europe... which is what I wanted to do this winter... (work some forty meter dx)

Don't rule out this type of antenna... even with the ends of the elements hanging on the ground it gets out... I have the top twenty feet or so of the forty meter elements taped along the rope to make them fit... works great... I am even thinking of twenty or fifteen meters later on...

cheap, efficient, lasts a long, long time... even blends into the background, if you don't use yellow rope!!! good dx or stateside to u...

joel wa5cvm in maine, north of dixie

God Bless
Joel

WA5CVM
Joel Denison
PO BOX 542
Strong, Maine 04983
jdenison@morelr.com

Gentlemen don't Cry, They QSY :-)
Gentle Lady (RC Sail Plane)(049 engine - start)
Vertical 3 elm Yagi 30mtr & 40mtr
QRP ARCI 4066 NEW ENGLAND QRP 476 QRP-L 765
AK/QRP 109

Date: Thu, 16 Apr 1998 09:27:13 -0700
From: "L.Svec,W.Burdick" <svecbrdk@well.com>
To: fred@innocent.com
Cc: qrp-l@Lehigh.EDU, qrpbob@datatamers.com
Subject: [8355] Re: Another SST on 20 meters
Message-ID: <v03102803b15bdc45bdef@[206.169.227.74]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Fred,

Thanks for the input on the SST. I'm looking at the voltages you mentioned to see if there's a mistake in the table, and I'll get back to you on this later.

As for the frequency coverage:

There is more variation than I thought there would be in the VX0 crystals I selected for the SST. I was constrained to use off-the-shelf frequencies to keep the cost of the kit low, and some people have ended up being just shy of the 14.060 mark with the 20-meter unit. (It still amazes me that there are standard microprocessor crystal frequencies available that get us close to the QRP frequencies on all three bands...)

There are several possible solutions, and I'll leave it to you to choose which way to go. We may change the kit in the future to make this easier.

1. The simplest (but not the least expensive) thing you can do is order a custom crystal from ICM, JAN, etc. Specify an HC49-can crystal with a frequency about 5 kHz above the highest intended frequency of operation. Custom crystals are on the order of \$10, although this varies widely depending on what lead time you request and how many you order. If the SST remains a popular kit, we could conceivably use a custom crystal for 20 meters in the future, but only if the volume is high enough to keep the crystal cost low. (In large quantities, such a crystal might go for \$2, but only with a 3-month lead time!)

2. The basic issue with a VXO is minimizing capacitance across the crystal to extend the high-frequency end of the range. The MV209 has a fairly high minimum capacitance--something like 10pF at 8V--so you could try a different, lower-capacitance varactor here. The MV2104 comes to mind, but check out the Motorola RF devices catalog (on the web), as well as Zetex (also on the web). You can also reduce the size of the choke in series with the crystal: the smaller the choke, the higher the high end of the range (in general), with a corresponding reduction in tuning range.

3. You can try to put two identical VXO crystals in parallel, one on the bottom of the board soldered directly to the leads of the one on the top. If you do this, you can greatly extend the tuning range; in fact it will tune farther than you want in some cases, necessitating a reduction in the size of the choke. I haven't tried this on the 20m unit, but it would be worth experimenting to see what you get. What you don't want to do is tune more than about 30kHz. The small pot on the SST is easiest to use with a 10 to 20kHz range.

4. As I mentioned, reducing capacitance at the high end is everything. You may want to experiment with a small air-variable capacitor as a substitute for the varactor tuning, in which case the pot will be replaced with a panel-mount variable capacitor. Make sure you use one with a really low minimum capacitance, perhaps 2 to 3 pF.

I hope one of these techniques does the trick! Let us know your results--

73,
Wayne
N6KR

Date: Thu, 16 Apr 1998 10:31:41 -0600
From: "James R. Duffey" <ji3m@maxwell.com>
To: qrp-1@Lehigh.EDU
Cc: "John J. McDonough" <jjmcd@mdn.net>
Subject: [8356] Radials for Verticals
Message-ID: <v03007808b15bc4c21bb4@[192.31.66.158]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

John - You posted;

"A lot of folks have said you NEED radials, and I am not convinced."

I will rise to this bait. Every time. Sure as a brown trout to a Royal Coachman.

I cannot resist refuting this statement. I am one of the folks that advocate radials for verticals. This or similar statements appear occasionally on the list and, I think, do a great disservice to those trying to get a vertical to work.

I don't mean this reply as personal criticism of you, but rather I would like to point out a few things about verticals and radials.

You need a good ground for a vertical to work. Unless you erect the vertical over salt water or a large metal plate the easiest way to provide the ground is with radials.

The ground serves several functions.

One is to provide a return current for the braid of the coax to connect to. This return current should be of equal magnitude to that in the antenna. It can be provided by a single resonant radial. If this is done, there will be some horizontally polarized radiation, so 2 radials are used which will result, theoretically at least, in no radiation from the radials.

An 8 ft ground rod will not provide this return current efficiently. There will be significant losses to the currents flowing on this rod due to the surrounding soil. If there are no radials the antenna will seek this return current elsewhere. The most likely place will be the outside of the coaxial cable. It will try to find some combination of coaxial feeder length, AC main grounds, station ground, telephone ground, or cable company ground until it finds a length that is resonant or nearly so. This will result in that whole length radiating. The radiated signal from this return current will likely be in unwanted directions, at high wave angles, and adjacent to lossy structures. It can also aggravate any interference.

A well defined radial structure, along with a choke balun at the feedpoint, will usually resolve this problem.

A second purpose to the radials is to provide a low loss path for the ground currents induced by the antenna in the ground. These ground currents are partly responsible for the shape of the radiated signal from the antenna. Without them the radiated signal at low angles will be lower, and the radiated signal at high angles will be higher.

L. B. Cebik, W4RNL explains all this better than I can at his web site;

<http://funnelweb.utcc.utk.edu/~cebik/radio.html>

Look for "A Modeling Perspective on "Ground" Planes Parts 1-5" and "Half-Length 80-Meter Vertical Monopoles: the Best Method of Loading Parts 1-5". There is lots of other good stuff there as well.

I note with interest your statement;

"A few weeks ago, I went crawling around with my shovel and put in a set of radials, and, if anything, the performance deteriorated. (In fairness, it didn't change enough to say it is worse, but it certainly is no better.)"

I am interested in how you determined that the performance deteriorated. Did you make base impedance measurements with and without the radials? If so did you infer a radiation resistance and hence an efficiency? Did the efficiency go down (worse performance)?

Did you make field strength measurements with and without the radials? If so did the field strength go down (worse performance)?

Without making these measurements I don't think that you can say the performance of the vertical deteriorated. Anecdotal data is useful, and powerfull, but until measurements have been made, the performance can not be defined.

Did you make SWR measurements? In your situation I would conjecture that the SWR went up, which to some people indicates poorer performance. The SWR will go up because the resistive component of the base impedance of the antenna will go down due to decreased losses.

Another possibility is that the feedline radiation has increased with the addition of the radials, particularly if they are not resonant in place. Unless you are using a choke balun at the feedpoint you may see deteriorated performance due to this.

The noise issue is interesting;

"It **IS** noisy ... any thunderstorm in the midwest seems to make it to my speaker, and there are all sorts of obviously man-made noises especially at the higher frequencies."

Static due to the antenna charging, often called precipitation static, but also observed when dry mild winds blow can be reduced by installing a 50 kOhm 3 watt non inductive resistor across the feedpoint. A high level of man made noise is often an indication of feedline pickup/radiation which can often be solved by a choke balun at the antenna feedpoint. Occasionally one is needed at the transmitter end as well.

I am somewhat worried about using the antenna on other bands as you suggest;

"I have been using an MFJ antenna tuner to load it on all the bands 40 and up, and it works amazingly well. (totally useless on 80, however)."

On some bands, 20M in particular, the antenna will have a very high impedance and hence high SWR on a coaxial cable. Losses will be quite high if the coax run is appreciable in length and especially high if small diameter, say RG-58U cable, is used.

On bands above 15 M there will be a lot of high angle radiation, which is not desirable for DX communication.

"I guess what I'm saying is that every situation is different, and there are few, if any, absolutes."

This is true, and for your operating conditions and habits radials may not make a big difference to you. After all, if you are losing half your power due to lack of radials, you will only be down 3 dB or so from the ideal situation. If you usually work only strong stations you may not notice the difference. If you only work stations less than 1000 miles away, you may not notice the improved low angle performance.

Antenna theory and practice as applied to vertical antennas are fairly well understood, and indicates that improved performance can be achieved with radials.

I would hate for a newcomer to read your post, install the antenna you describe and be frustrated. And I think in many cases the user of the antenna you describe will be frustrated.

I will summarize what I think is necessary for a good vertical installation;

0) A good ground. Salt water, a large metal plate, or radials. If radials are used, it is probably preferable to have them elevated and resonant. If they are not resonant, then follow handbook guidelines for number and length of radials. You will generally be happier with many long radials.

1) A choke balun at the feedpoint to minimize feedline radiation/pickup. See the handbook for choke balun dimensions, or go to;

<http://www.berkshire.net/~robbins/technote/airbalun.html>

These air core choke baluns can be easily made from coax wound around a form.

2) In stubborn cases a second choke balun at the transmitter may be required.

3) A good ground.

I have said this all before, and others have as well. If you have a

vertical antenna pay attention to the ground.

See on the bands. - Duffey KK6MC/5

James R. Duffey <jr3m@maxwell.com> (505) 764-3143
Maxwell Technologies Inc. http://www.maxwell.com/
2501 Yale Blvd SE Suite 300
Albuquerque, NM 87106-4200

Date: Thu, 16 Apr 1998 10:48:45 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: Ward Hill <w_hill@ns.net>
Cc: qrp-1@Lehigh.EDU
Subject: [8357] Re: tax refund [g]...
Message-ID: <199804161649.KAA29090@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Hi, Ward--

>>What is that????
<<

Don't you get one of those? That's where the IRS makes you send extra money all year because you don't DARE have sent in less than your tax, because if you do you get a big penalty. So you send extra and they send it back. This year I overpaid by \$500, but still paid a penalty because I underpaid by \$150 in the first quarter. Oddly, I did not get to charge them a penalty on the \$500....

73
Marshall Emm
N1FN/VK5FN
n1fn@mtechnologies.com
Milestone Technologies
Software, kits, tools...
http://www.mtechnologies.com
(303)752-3382

--

Date: Thu, 16 Apr 1998 11:55:05 -0500
From: n5inz@juno.com (John M Andrews)
To: qrp-1@Lehigh.EDU
Subject: [8358] Re: Parts offer-N5INZ
Message-ID: <19980416.120929.3198.16.N5INZ@juno.com>

Wow- this is a lot on my plate.

Just to clarify.....

1. I am committed for several hundred pounds now, so I'm going to stop for the moment except those who have confirmed e-mail. If I sent you my mailing adr, you are confirmed and those that are still in negotiation regarding best way to ship. Need to catch my breath and avoid mistakes.

2. On the 2 lb orders- the total is \$9.00(5.00 + shipping). Sorry, just can't send for free.

3. If those who ordered 10 lbs or more would call UPS or USPS for the cost of total shipping from my zip(San Antonio- 78280) to yours, that would be a great help and would insure your shipment will be timely.

4. Yes- this will be an assortment- Not just one value of p.c. mountable parts.

The large value/large size types for tube gear has been spoken for. Yes- all parts are new(except those who have asked for rare items).

This is a labor of love- I really like seeing more homebrew gear on the air- If I can contribute to that, my goals are met.

72, John- N5INZ

You don't need to buy Internet access to use free Internet e-mail.

Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 16 Apr 1998 14:14:02 EDT
From: PDouglas12 <PDouglas12@aol.com>
To: qrp-1@Lehigh.EDU
Subject: [8359] Elmer 101 diodes
Message-ID: <bf118015.35364a6c@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Gang,

I think it goes without saying that you MUST read the construction manual that came with your SWL 40+. It is not a wise idea to depend entirely on the Elmer course online for all your information. The confusion as to diode placement is a perfect case in point. As Gary Surrency (sp?, sorry Gary) pointed out, Dave's instructions explain his convention for diode placement. The body of the diode goes on the circle with the banded end UP. That assures correct orientation, which is critical for all diodes in the rig. Please, even if you build in a different sequence from the manufacturer's manual, do read the whole manual, cover to cover before you start. That is advice you should take to heart with any project, from a transceiver to a gas grill.

This is not intended as criticism of the questions asked on this subject. You guys are not allowed to be embarrassed about asking a beginner's question! That's what the course is for! And to the builder who had to reverse the diode to get juice, bravo! That's how we learn.

72,

Preston WJ2V

Date: Thu, 16 Apr 1998 18:55:27 +0000
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [8360] ARCI QSI Party, we6w
Message-ID: <3536541F.190A@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The computer has been broken since Last Friday, so just got my glimpse of email I've missed.... :)

Worked the ARCI test using my Drake between 3 and 5 watts. Also used my Les Logan #501 speed-X bug :) :) :) FUN!

My ARCI Number is 9397 and wouldn't you know it, sending those long number '9's gets tough on the bug!! Sorry to all that suffered my bug work on the numbers.

I ended up with the following summary: (Simple 40Meter Dipole up 30 feet)

BAND	QSO's	SPC's
40	40	18
20	60	29
15	45	28
10	8	7

LOTS O' Fun!

Gotta Run.

-Ed

--

72, Ed, WE6W/qrp CW ONLY; Proud Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (Enjoying Ham Radio every day.)

Date: Thu, 16 Apr 1998 18:56:58 +0000
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [8361] Re: ARCI QSI Party, we6w
Message-ID: <3536547A.393A@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

OH!

Got [HI], and [TX] on all four bands, 40-10 meters!
Worked 42 UNIQUE SPC's total.

QRP RUN, QRO FUN.

-Ed

--

72, Ed, WE6W/qrp CW ONLY; Proud Member: QRP-L/ARCI/Norcal/ARS/AR

<http://www.qsl.net/we6w> (Enjoying Ham Radio every day.)

Date: Thu, 16 Apr 1998 15:04:52 -0400 (EDT)
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
To: Monte Stark <ku7y@dri.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [8362] Re: tax refund [g]...
Message-ID: <Pine.GS0.3.96.980416150123.22616A-100000@callisto.acsu.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I thought that *tax refund* was a myth.

If anyone gets one; at least part of it will be subsidized by a home equity loan courtesy of yours truly. I needed it to cover quarterly tax.

You can believe me when I say "That's bogus!!!" :-)

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
Life member ARRL
jskalski@acsu.Buffalo.EDU

Date: Thu, 16 Apr 1998 15:09:40 -0400
From: Michael Maiorana <mikemo@ibm.net>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [8363] Elmer 101: questions on part 2
Message-ID: <35365774.1999@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I've received several emails with questions on the power supply circuit. I don't know if I can answer them completely, but this should serve to start the discussion.

Please, read all your email before you reply to any, just to be sure that there are no duplicate answers.

All the questions centered on a theme. WHY did the designer choose this particular component?

Lets also keep in mind that many components are chosen for reasons other than function. There are many parts that could be replaced with a number of parts and function properly. Often the choice comes to economy, availability and stock. Dave may have 10,000 1N4001 diodes in his stock. That would move him to use these components in his designs anywhere possible. Physical size is also a consideration, will it fit on the board? Component choice can also be "designers preference".

D13, why a 1N4001?

I think I can answer this one. What characteristics do you need in this particular application? It must be able to carry all of the power supply current through it (up to .5 amps). It must have a reverse voltage rating greater than the supply voltage (15 volts). It does not have to be fast, as it is not a detector or a switching diode. Capacitance really does not matter as it is normally forward biased. It should be inexpensive and readily available.

So, the 1N4001 fits these characteristics perfectly. It handles up to 1 amp forward current, 100 volts reverse voltage, characterized as a rectifier. And they are really cheap.

You could replace this component with any rectifier diode that has a PIV of 30 volts or more(input voltage plus the charged Power supply capacitor) and a forward current rating of 1 amp (0.5 amps plus surge current) or more.

C112 and C102

Why these types and values? I think I can answer part of this question. C112 is a 220 microfarad electrolytic. C102 is a .01 microfarad ceramic. C112 is for filtering low frequencies and C102 is for filtering high frequencies (RF). The electrolytic has a low impedance to lower frequencies (120Hz) but has a substantial impedance to high frequencies, due to it's construction. This is why C102 is there.

There are lot's of different types of capacitors with widely varying characteristics. Does anyone have a summary of different capacitor types and their characteristics? That would be a good post.

U2 78L08

Why? I believe this one was already answered in the original post. It keeps a steady 8 volts on sensitive circuits even if the supply drops to 10.4 volts.

Why this particular part? It is a standard three terminal regulator. They have been around a while. Take a look at the date on the top of the data sheet (January, 1976). From what I understand there are two types,

the L series in the T092 (plastic transistor) case, and the standard series is in a T0-220 (like the final output transistor, Q6). The standard series can supply lots more current. It is also more expensive, larger and has a higher bias current. Since the circuit requirements are for <100mA , the 78L08 is the correct choice.

You could "roll your own" regulator with discrete components. However, at \$0.25 each, and such a small size, I don't think you can beat the 78Lxx series.

I hope this is a start in the right direction to answer the questions posed. Let's hear from those "in the know" on the details I missed.

--

72 de ku4qo
Mike Maiorana
Palm Harbor, FL

"De do do do, de da da da. Thats all I want to say to you" The Police

Date: Thu, 16 Apr 1998 15:14:58 -0400
From: Michael Maiorana <mikemo@ibm.net>
To: qrp1 <qrp-1@Lehigh.EDU>, PDouglas12@aol.com
Subject: [8364] Re: Elmer 101 diodes
Message-ID: <353658B2.1DC1@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

PDouglas12 wrote:

> I think it goes without saying that you MUST read the construction manual that
> came with your SWL 40+. It is not a wise idea to depend entirely on the Elmer
> course online for all your information.

Here is a quote from "part 1, getting ready":

>First, READ THE MANUAL! Dave has done a great job on the manual and it
>contains tons of useful information. Don't worry if the "Theory of
>Operation" stuff goes over your head, that's why we are doing this.

Just wanted to point this out.

--

72 de ku4qo
Mike Maiorana
Palm Harbor, FL

Date: Thu, 16 Apr 1998 15:42:14 EDT
From: K5BDZ <K5BDZ@aol.com>
To: K5BDZ@aol.com, qrp-1@Lehigh.EDU
Subject: [8365] Attn: Don, K9BNI
Message-ID: <87d9453d.35365f17@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Don

Your package went out UPS today. Sorry for the delay...had planned to send it Monday but my wife ended up in ICU Saturday and was there for a few days...She's OK now so we're playing "catch-up" with the chores.
Bill, K5BDZ

Date: Thu, 16 Apr 1998 12:51:27 -0700
From: Vic Rosenthal <rakefet@rakefet.com>
To: ji3m@maxwell.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [8366] Re: Radials for Verticals
Message-ID: <3536613F.25F3A406@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

James R. Duffey wrote:

>

> You need a good ground for a vertical to work. Unless you erect the
> vertical over salt water or a large metal plate the easiest way to provide
> the ground is with radials.

I second Jim's comments. I'd like to add that I don't think it's especially helpful to newcomers to post things like "...yeah, you don't need no radials (substitute your own favorite issue) because I worked blah-blah-blah with a cat-pee soaked string hung up in my bathroom and 250mw." The fact is that the guy with the string would have done better with a properly designed and installed antenna. He was lucky, which by definition means that his results are not consistent or repeatable.

Vic, K2VCO

Date: Thu, 16 Apr 1998 15:11:22 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: mikemo@ibm.net
Cc: w5yr@swbell.net, qrp-1@Lehigh.EDU
Subject: [8367] Re: Elmer101: power supply rejection ratio calculation
Message-ID: <353665EA.AE5D0CF6@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The designers/manufacturers of the 78L08 already did it: it is 48 db. The power in the output over some band of frequencies contained in the input ripple "signal" spectrum is reduced 48 db from that in the input, regardless of input and/or output impedances/resistances. Power levels in db are independent of resistance or impedance, although in many cases absolute resistance/impedance levels enter in to determining them. But when we state a power ratio in db, we need not specify the resistance involved unless we also want to relate a voltage or current associated with that power level.

It is only when we start using voltage or current to determine/interpret/state those power levels that the resistances have to be stated or at least qualified to be equal.

Your transmitter is supposed to have an attenuation of 30 db or greater at all frequencies other than the fundamental output, say 7.040 Mhz. How many volts of 14.08 Mhz "ripple" will there be on your transmission line or dummy load where it connects to the transmitter or tuner? Depends upon your load resistance, right? But regardless of the load, the total power in the output spectrum at that second-harmonic must be 30 db or more down from the power in the fundamental spectrum without regard to the load resistance. The FCC spec says nothing about load resistance. In any event, the actual load resistance of an antenna system at 14.08 Mhz is likely to be different from that at 7.04 Mhz.

I'll bet that you are beginning to suspect that there is a lot more to decibel usage than a couple of formulas.

--
72/73, George
Amateur Radio W5YR (since 1946)
QRP-L #1373 QRP ARCI #9583
AutoPOWER Systems, Fairview, TX (30 Mi. N. of Dallas)

Michael Maiorana wrote:

>

> George T. Baker wrote:

> > 48 DB IS A POWER RATIO, NOT A VOLTAGE RATIO

> >

> > More math:

>

> George,

> Thanks for clearing up the math part of this problem. That makes it
> clear the difference between $\text{dB}=10 \log(x/y)$ and $\text{dB}=20 \log(x/y)$ when
> you speak of voltage and power.

>

> As it stands, the 1 volt ripple in equals 4mV ripple out, only if the
> input impedance equals the output impedance.

>

> Is someone up to doing a circuit analysis of the power supply to
> calculate the actual attenuation of a "ripple" on the input.

> --

> 72 de ku4qo

> Mike Maiorana

> Palm Harbor, FL

>

> "De do do do, de da da da. Thats all I want to say to you" The Police

-

Date: Thu, 16 Apr 1998 16:13:57 -0400

From: "Ron Polityka" <wb3aal@talon.net>

To: "QRP-L" <qrp-l@Lehigh.EDU>

Subject: [8368] Reply for 38S

Message-ID: <01bd6974\$300fb320\$645445c6@default>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I want to thank everyone that sent me a message about
selling a 38 Special. I have forwarded all the extra messages
to other hams that are looking for 38S also.

Thanks All !

73, Good DXing & QRPing

Ron de WB3AAL

E-mail: wb3aal@talon.net
BBS: WB3AAL @ WB3FYL.#BER.PA.USA.NA

EPA QRP # 1 QRP # 5318 10-10 # 13173
QRP-L # 1099 G-QRP # 3031 AK QRP # 309
Adventure Radio Society #380

Date: Thu, 16 Apr 1998 16:24:42 -0400
From: Richard Sherman <srichard@aldus.northnet.org>
To: qrp-l@Lehigh.EDU
Subject: [8369] Re: Elmer 101: Part 2, power supply
Message-ID: <3.0.1.32.19980416162442.008f5530@aldus.northnet.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

While on the subject of the power supply, how would one choose the appropriate fuse? It would have to have a rating somewhat above the Tx current. So would that "fudge factor" be say times 1.5 or 2. Some other amount, or simply the next biggest fuse above the measured TX current? Just one of those questions I've never been able to find an answer for. Thanks in advance,
72 de Rick WZ2T Franklin County NNY

srichard@northnet.org
---If you're not part of the solution,
 You're part of the precipitate.---
 Steven Wright

Date: Fri, 17 Apr 1998 09:00:02 +1200
From: "Grindrod, Ross [Pulp & Paper]" <GRINDRR@chh.co.nz>
To: QRP-l@Lehigh.EDU
Subject: [8370] ATU Coil Contruction
Message-ID: <199804162115.JAA26396@host02.net.voyager.co.nz>
MIME-Version: 1.0
Content-Type: text/plain

I am about to construct an ATU from scratch ,which means constructing a coil to do the job,
I am looking for a recipe for silver coating the coil from Silver

Nitrate,

I had an article put aside but but have misplaced it in a recent qth shift

Thankyou for taking the time to read this meassge

Chris Ross Grindrod
ZL3DC

Date: Thu, 16 Apr 1998 16:26:22 -0500
From: nilsbull@juno.com (Nils R Young)
To: QRP-L@Lehigh.EDU
Subject: [8371] S&S new radio, OHR new radio, K2 new radio & that other new radio
Message-ID: <19980416.162627.10294.4.nilsbull@juno.com>

Gang,

Am I missing something here or is there suddenly gonna be a big time market show on new multi-band, multi-mode, reasonably priced QRP rigs? I haven't been suckin' on the casting plunger that much!

The pictures that I've seen of the K2 are awesome. If the end product is anywhere as cool as it looks digitized and not quite run up, I'm gonna have a hell of a time figuring out which set of bifocals to get reground.

And knowing Dick & Kathy as I do (they're patient . . . and accept me as one too), I'm itchin' like a kid with hair lice to see what they've got planned for the big show & tell at Dayton. Man . . . show me the pictures! Show me the pictures!

Pass me that lead pipe. And that bottle of mustard. Yeah, and the relish.

And now comes up that OHR's got a five-bander in the works. Damn!

I may have to get that magnifyin' glass with a light bulb thing that Cindy was gonna use to finish her pre-bifocal cross stitch projects up here in the trash room so I can build one of them puppies. After I sell some of these other puppies I got here so I can afford the one of my choice &c.

And at the prices cited, I can only expect that whatever shows up will be better than the radio of great renown which has proven itself to be only

one step past total vaporware so far. Like what is it now? August they'll be shippin'?

Yeehah!

73

Nils

Nils R. Bull Young

La Estancia de los Guajolotes Sonrientes :: The Grinnin' Turkey Ranch

WB8IJN &c :: The Tagalong Press :: email to: nilsbull@juno.com

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Date: Thu, 16 Apr 1998 17:02:44 -0500

From: ac5ez@webtv.net (Larry B)

To: qrp-1@Lehigh.EDU

Subject: [8372] Free books

Message-ID: <199804162202.PAA24245@mailtod-121.bryant.webtv.net>

Content-Type: TEXT/PLAIN; CHARSET=US-ASCII

Content-Transfer-Encoding: 7BIT

MIME-Version: 1.0 (WebTV)

This is a little off the subject of qrp but I have "Your Packet Companion" by Steve Ford wb8imy and "Your hf digital companion" by same. Two green stamps via snail mail to cover postage and their yours.

Larry

ac5ez

Date: Thu, 16 Apr 1998 15:25:44 -0700

From: "Alan Kaul" <alan.kaul@worldnet.att.net>

To: <mikemo@ibm.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [8373] Re: Elmer 101: questions on part 2
Message-ID: <19980416222338.AAA7433@default>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

> From: Michael Maiorana <mikemo@ibm.net>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: Elmer 101: questions on part 2
> Date: Thursday, April 16, 1998 12:09 PM
>
> I've received several emails with questions on the power supply circuit.

> U2 78L08
> Why? I believe this one was already answered in the original post. It
> keeps a steady 8 volts on sensitive circuits even if the supply drops to
> 10.4 volts.
> Why this particular part? It is a standard three terminal regulator.
> They have been around a while....Since the circuit requirements are
> for <100mA , the 78L08 is the correct choice.
> You could "roll your own" regulator with discrete components. However,
> at \$0.25 each, and such a small size, I don't think you can beat the
> 78Lxx series.

Michael----the legendary ''thump'' in the Norcal 38S was traced by many to the regulator chip, which also happened to be an 8V device. I'm rolling my own regulator for the 38S now using an NPN wired as a pass-transistor (the idea isn't mine--it appeared in the advance publicity for the ''44-magnum'' version of the ''38-special") to a reference voltage set by a Zener diode (I'll probably use 7.5v since I couldn't find an 8 -- and the next highest rating might be too high). The caps on either side of the regulator in the 38S didn't catch all the crud -- perhaps they do in this rig. Would you expect a ''thump?'' And why or why not??

Alan Kaul, W6RCL, LaCanada, CA
w6rcl@amsat.org
<http://home.att.net/~alan.kaul/qrp.html>

End of QRP-L Digest 1062
